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Taxonomy & Inventories

Ichneumonidae species (Hymenoptera) new to Iraq recorded from Kurdistan

Srwa Kareem Hamad ‡

‡ Department of Plant Protection, College of Agricultural Engineering Sciences, Salahaddin University, Erbil, Iraq

Corresponding author: Srwa Kareem Hamad (srwa.hamad@su.edu.krd)

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Abstract

Background

Ichneumonidae, a dominant and ecologically important family of parasitoids in the large insect order Hymenoptera, are poorly studied in Iraq, with only 18 previously recorded and identified species known so far. During a survey in Kurdistan, Iraq, numerous Ichneumonidae species were collected in July 2023 using a Malaise trap.

New information

Fourteen species of Hymenoptera: Ichneumonidae are herein newly recorded for the fauna of Iraq: *Phaenolobus hilalii* Kolarov & Gürbüz, 2010; *Lissonota deversor* Gravenhorst, 1829; *Alcima orbitale* (Gravenhorst, 1829); *Campoletis scyticus* Riedel, 2017; *Casinaria tenuiventris* (Gravenhorst, 1829); *Cryptus spinosus* Gravenhorst, 1829; *Perilissus dissimilator* Aubert, 1987; *Diadromus collaris* (Gravenhorst, 1829); *Clistopyga incitator* (Fabricius, 1793); *Itoplectis tunetana* (Schmiedeknecht, 1914); *Pimpla flavicoxis* Thomson, 1877; *Pimpla spuria* Gravenhorst, 1829; *Zaglyptus multicolor* (Gravenhorst, 1829) and *Zatypota bohemani* (Holmgren, 1860). Recorded distributions are provided for all species, summarised for very widely distributed species.

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Keywords

new records, taxonomy, identification, Ichneumonoidea, parasitoids

Introduction

Hymenoptera, one of the large insect orders (Stevens et al. 2007), is dominated by many groups of specialised parasitoids, of considerable importance in most terrestrial ecosystems (Polaszek and Vilhelmsen 2023). The family Ichneumonidae is the largest of these comprising, when last catalogued (Yu et al. 2016) 1.601 genera and 25,285 species. Hosts include Coleoptera, Hymenoptera and Lepidoptera larvae and pupae, as well as other arthropod groups (Broad et al. 2018, Çoruch and Kolarov 2010).

Ichneumonidae are considered potential suppressors of populations of pest species and are widely used in biological control programmes and natural enemy conservation efforts (Gupta 1991). However, despite their abundance, ecological and economic importance, ichneumonid biology remains relatively poorly studied (Shaw and Hochberg 2001). The Iraq fauna is especially poorly known, with only 18 previously recorded and identified species so far formally recorded from the country (Aljaafari 2022, Kareem et al. 2020, Kareem et al. 2024, Yu et al. 2016).This study is based upon material of the family Ichneumonidae collected from a single locality in Kurdistan in Iraq. The purpose of the study was to contribute to the knowledge of ichneumonid species in Iraq.

Materials and methods

Specimens were collected using a Malaise trap from April to June 2023 at various agricultural areas in the Kurdistan region, which is located in the north of Iraq. All species recorded herein as new to Iraq were from the same locality and date: IRAQ: Kurdistan, Erbil Governorate, Qala Sngi Khwaru, 36°20'06.0"N 44°19'37.2"E 28.v.2023 (note that this locality has previously been spelt as follows: “Qal ah sanj”). Specimens were collected into 96% ethanol and preserved following Eastop and van Emden (1972) for later identification and transported to NHMUK London. They were mounted on card points and provisionally identified by Sir Anthony Galsworthy, a Scientific Associate at the Natural History Museum (NHMUK). Identifications were then confirmed by Dr Gavin Broad, Ichneumonoidea curator at NHMUK. Selected specimens have been imaged at NHMUK using a Hirox HRX-01 digital microscope (Hirox Co. Ltd., Tokyo, Japan) with software S/N H3265 Version 2.24, including built-in stacking software. All specimens are deposited at NHMUK.

Ichneumonidae species new to Iraq

Subfamily Acaenitinae Förster, 1869

Phaenolobus hilalii Kolarov & Gürbüz, 2010

- GBIF https://www.gbif.org/occurrence/5084974714

Material

a. higherClassification: Animalia; Arthropoda; Insecta; Hymenoptera; Ichneumonoidea; Ichneumonidae; Acaenitinae; locality: Kurdistan, Qala Snigi Khwaru; decimalLatitude: 30.335; decimalLongitude: 44.327; geodeticDatum: WGS84; samplingProtocol: Malaise trap; eventDate: 2023-05-28; individualCount: 1; sex: Male; lifeStage: Adult; catalogNumber: NHMUK010888495; occurrenceDetails: http://api.gbif.org/v1/occurrence/search?occurrenceId=247781d3-455f-4b95-9ff7-cbcd88711e08; recordedBy: [Dr Srwa Karim Bandyan]; occurrenceStatus: PRESENTE; otherCatalogNumbers: NHMUK:ecatalogue:11380974; identifiedBy: Dr Gavin R. Broad; institutionCode: NHMUK; collectionCode: BMNH(E); basisOfRecord: PRESERVED_SPECIMEN; occurrenceID: 9D197442-6DA8-5E4B-B7F3-55064241AB30

Diagnosis: Fig. 1

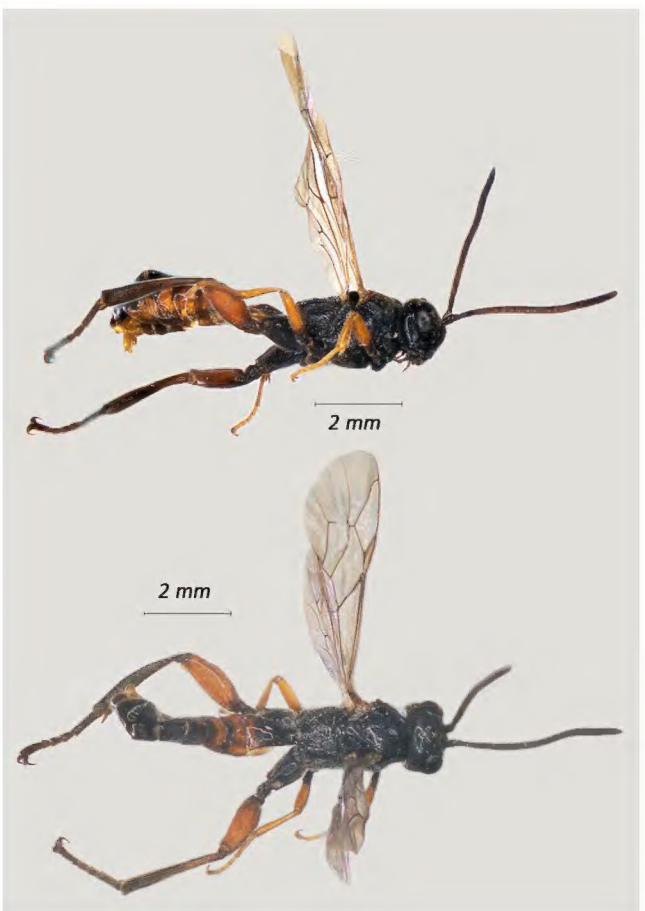

Figure 1. doi

Phaenolobus hilalii, ♂ Adult. Lateral view (above) and dorsal view (below).

Distribution: Turkey (Kolarov and Gürbüz 2010).

Subfamily Banchinae Wesmael, 1845

Lissonota deversor Gravenhorst, 1829

- GBIF https://www.gbif.org/occurrence/5084992953

Material

a. higherClassification: Animalia; Arthropoda; Insecta; Hymenoptera; Ichneumonoidea; Ichneumonidae; Banchinae; taxonRank: SPECIES; higherGeography: Asia; Iraq; Arbil; locality: Kurdistan, Qala Snigi Khwaru; decimalLatitude: 30.335; decimalLongitude: 44.327; geodeticDatum: WGS84; samplingProtocol: Malaise trap; eventDate: 2023-05-28; individualCount: 1; sex: Female; lifeStage: Adult; catalogNumber: NHMUK016200530; occurrenceDetails: http://api.gbif.org/v1/occurrence/search?occurrenceId=2a8de3ed-45e4-4c08-9bb3-2d6f61aa5e2d; recordedBy: [Dr Srwa Karim Bandyan]; occurrenceStatus: PRESENT; otherCatalogNumbers: NHMUK:ecatalogue:11443880; identifiedBy: Sir Anthony C. Galsworthy; institutionCode: NHMUK; collectionCode: BMNH(E); basisOfRecord: PRESERVED_SPECIMEN; occurrenceID: 5197C92B-A2BB-584C-8F8D-71ABD2E28182

Diagnosis: Fig. 2

Figure 2. doi

Lissonota deversor, ♀ Adult. Lateral view (above) and dorsal view (below)

Distribution: Very widespread in the Western Palaearctic, also in South Africa (Yu et al. 2016). This is the first record for the Middle East.

Subfamily Campopleginae Förster, 1869

Alcima orbitale (Gravenhorst, 1829)

- GBIF https://www.gbif.org/occurrence/5084999924

Material

a. scientificName: *Alcima orbitale* (Gravenhorst, 1829); taxonomicStatus: ACCEPTED; higherClassification: Animalia; Arthropoda; Insecta; Hymenoptera; Ichneumonoidea; Ichneumonidae; Campopleginae; taxonRank: SPECIES; higherGeography: Asia; Iraq; Arbil; locality: Kurdistan, Qala Snigi Khwaru; decimalLatitude: 30.335; decimalLongitude: 44.327; geodeticDatum: WGS84; samplingProtocol: Malaise trap; eventDate: 2023-05-28; individualCount: 1; sex: Female; lifeStage: Adult; catalogNumber: NHMUK016200522; occurrenceDetails: http://api.gbif.org/v1/occurrence/search?occurrenceId=3d842f15-4aa1-4c79-b19b-6ca88c16245a; recordedBy: [Dr Srwa Karim Bandyan]; occurrenceStatus: PRESENT; otherCatalogNumbers: NHMUK:ecatalogue:11443852; identifiedBy: Sir Anthony C. Galsworthy; institutionCode: NHMUK; collectionCode: BMNH(E); basisOfRecord: PRESERVED_SPECIMEN; occurrenceID: 7A315F2D-055E-5463-A2E3-06429F25787A

Diagnosis: Fig. 3

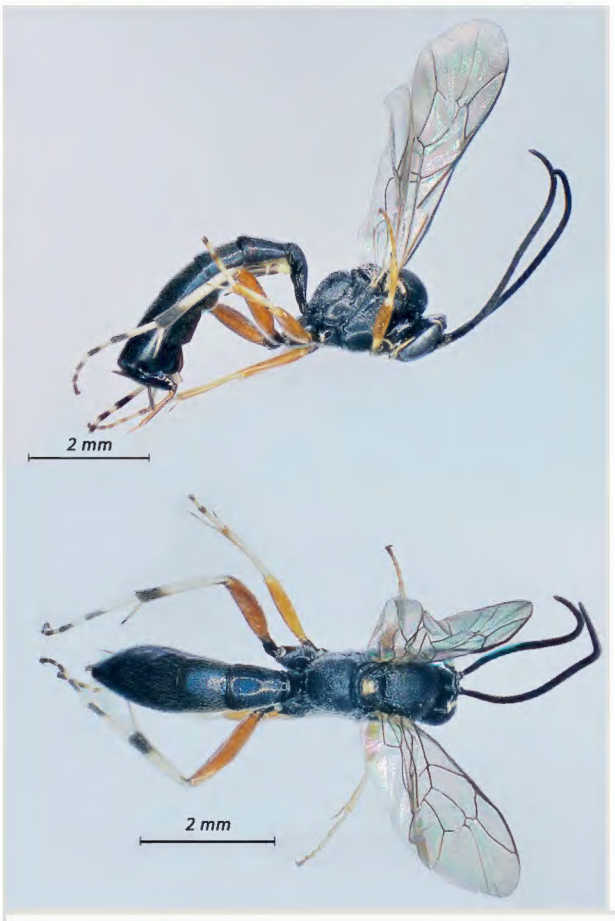

Figure 3. doi

Alcima orbitale, ♀Adult. Lateral view (above) and dorsal view (below).

Distribution: Very widespread in the Eastern and Western Palaearctic (Yu et al. 2016).

Campoletis scyticus Riedel, 2017

- GBIF https://www.gbif.org/occurrence/5084989949

Material

a. scientificName: *Campoletis* Förster, 1868; taxonomicStatus: ACCEPTED; higherClassification: Animalia; Arthropoda; Insecta; Hymenoptera; Ichneumonoidea; Ichneumonidae; Campopleginae; taxonRank: GENUS; higherGeography: Asia; Iraq; Arbil; locality: Kurdistan, Qala Snigi Khwaru; decimalLatitude: 30.335; decimalLongitude: 44.327; geodeticDatum: WGS84; samplingProtocol: Malaise trap; eventDate: 2023-05-28; individualCount: 1; sex: Male; lifeStage: Adult; catalogNumber: NHMUK016200531; occurrenceDetails: http://api.gbif.org/v1/occurrence/search?occurrenceId=a5e7a16a-f1d6-474a-be2e-0ff167375911; recordedBy: [Dr Srwa Karim Bandyan]; occurrenceStatus: PRESENT; otherCatalogNumbers: NHMUK:ecatalogue:11443874; identifiedBy: Sir Anthony C. Galsworthy; institutionCode: NHMUK; collectionCode: BMNH(E); basisOfRecord: PRESERVED_SPECIMEN; occurrenceID: 2A7A3E3E-6365-5773-9EC4-C977BD647773

Diagnosis: Fig. 4

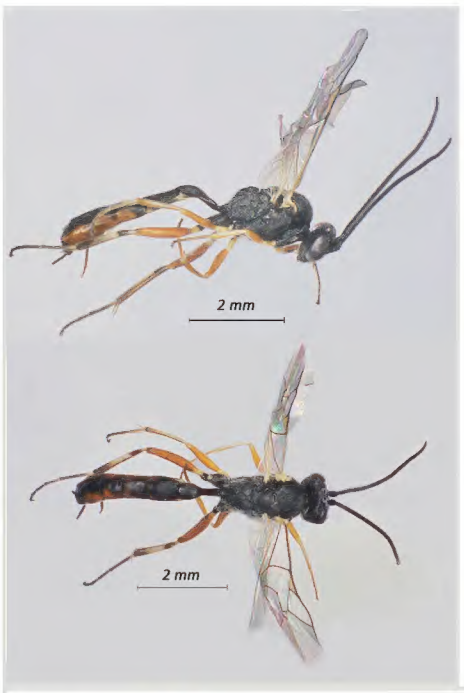

Figure 4. doi

Campoletis scyticus, ♂Adult. Lateral view (above) and dorsal view (below).

Distribution: Afghanistan (Vas 2019), Bulgaria, Kazakhstan, Kyrgyz Republic, Morocco, Turkey, Turkmenistan (Riedel 2017).

Casinaria tenuiventris (Gravenhorst, 1829)

- GBIF https://www.gbif.org/occurrence/5084982672

Material

a. scientificName: *Casinaria tenuiventris* (Gravenhorst, 1829); taxonomicStatus: ACCEPTED; higherClassification: Animalia; Arthropoda; Insecta; Hymenoptera;

Ichneumonoidea; Ichneumonidae; Campopleginae; taxonRank: SPECIES; higherGeography: Asia; Iraq; Arbil; locality: Kurdistan, Qala Snigi Khwaru; decimalLatitude: 30.335; decimalLongitude: 44.327; geodeticDatum: WGS84; samplingProtocol: Malaise trap; eventDate: 2023-05-28; individualCount: 1; sex: Female; lifeStage: Adult; catalogNumber: NHMUK010888455; occurrenceDetails: http://api.gbif.org/v1/occurrence/search?occurrenceId=7f3bc858-071b-451f-adf5-68deddef4195; recordedBy: [Dr Srwa Karim Bandyan']; occurrenceStatus: PRESENT; otherCatalogNumbers: NHMUK:ecatalogue:11380781; identifiedBy: Sir Anthony C. Galsworthy; institutionCode: NHMUK; collectionCode: BMNH(E); basisOfRecord: PRESERVED_SPECIMEN; occurrenceID: C0AEF48D-DDC6-510A-9859-244923579979

Diagnosis: Fig. 5

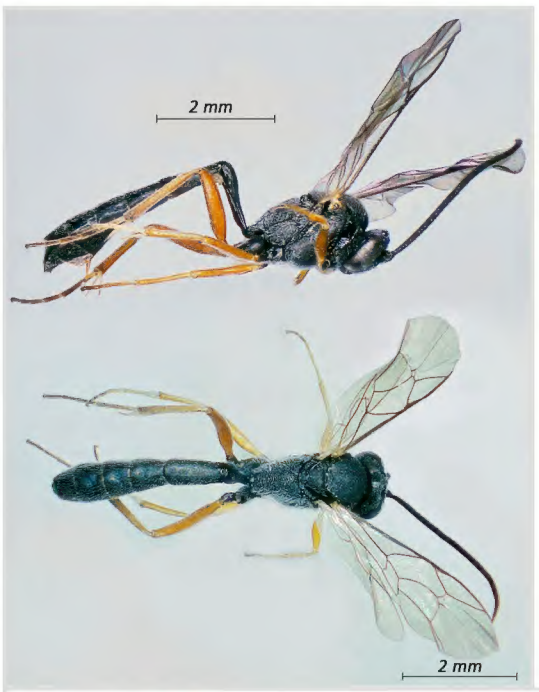

Figure 5. doi

Casinaria tenuiventris, ♀Adult. Lateral view (above) and dorsal view (below).

Distribution: Very widespread in the Eastern and Western Palaearctic; introduced into USA (Yu et al. 2016).

Subfamily Cryptinae Kirby, 1837

Cryptus spinosus Gravenhorst, 1829

- GBIF https://www.gbif.org/occurrence/5084987659

Material

a. scientificName: *Cryptus spinosus* Gravenhorst, 1829; taxonomicStatus: ACCEPTED; higherClassification: Animalia; Arthropoda; Insecta; Hymenoptera; Ichneumonoidea; Ichneumonidae; Cryptinae; taxonRank: SPECIES; higherGeography: Asia; Iraq; Arbil; locality: Kurdistan, Qala Snigi Khwaru; decimalLatitude: 30.335; decimalLongitude: 44.327; geodeticDatum: WGS84; samplingProtocol: Malaise trap; eventDate:

2023-05-28; individualCount: 1; sex: Female; lifeStage: Adult; catalogNumber: NHMUK010888446; occurrenceDetails: http://api.gbif.org/v1/occurrence/search?occurrenceId=26734430-224d-4959-901f-f7cf7c646f38; recordedBy: [Dr Srwa Karim Bandyan]; occurrenceStatus: PRESENT; otherCatalogNumbers: NHMUK:ecatalogue:11380771; identifiedBy: Dr Gavin R. Broad; institutionCode: NHMUK; collectionCode: BMNH(E); basisOfRecord: PRESERVED_SPECIMEN; occurrenceID: 63906DD6-8A5A-5F18-9B48-C61150708099

Diagnosis: Fig. 6

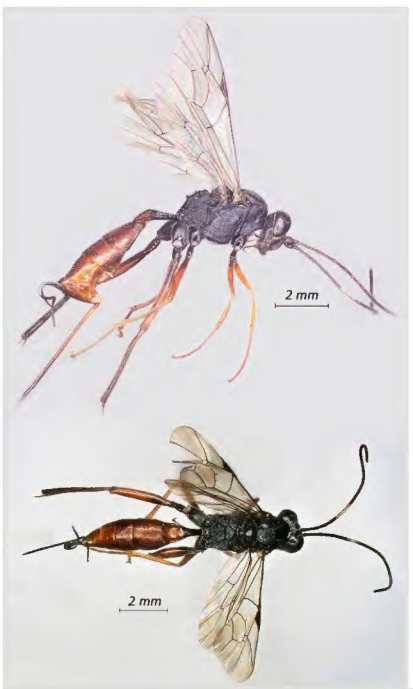

Figure 6. doi

Cryptus spinosus, ♀ Adult. Lateral view (above) and dorsal view (below).

Distribution: Very widespread in the Western Palaearctic; also recorded from Central Asia and North Africa (Yu et al. 2016).

Subfamily Ctenopelmatinae Förster, 1869

Perilissus dissimilator Aubert, 1987

- GBIF https://www.gbif.org/occurrence/5084988700

Material

a. scientificName: *Perilissus* dissimilitor Aubert, 1987; taxonomicStatus: ACCEPTED; higherClassification: Animalia; Arthropoda; Insecta; Hymenoptera; Ichneumonoidea; Ichneumonidae; Ctenopelmatinae; taxonRank: SPECIES; higherGeography: Asia; Iraq; Arbil; locality: Kurdistan, Qala Snigi Khwaru; decimalLatitude: 30.335; decimalLongitude: 44.327; geodeticDatum: WGS84; samplingProtocol: Malaise trap; eventDate: 2023-05-28; individualCount: 1; sex: Female; lifeStage: Adult; catalogNumber: NHMUK010888504; occurrenceDetails: http://api.gbif.org/v1/occurrence/search?occurrenceId=d6649fc8-3972-4bd9-b830-666bc20c3eae; recordedBy: [Dr Srwa Karim Bandyan']; occurrenceStatus: PRESENT; otherCatalogNumbers: NHMUK:ecatalogue:

11381241; identifiedBy: Dr Gavin R. Broad; institutionCode: NHMUK; collectionCode: BMNH(E); basisOfRecord: PRESERVED_SPECIMEN; occurrenceID: 3048ED26-7B77-5C5F-A42C-09421EC7AD71

Diagnosis: Fig. 7

Figure 7. doi

Perilissus dissimilator, ♀ Adult. Lateral view (above) and dorsal view (below).

Distribution: Austria, France, Turkey, Ukraine, former Yugoslavia (Yu et al. 2016).

Subfamily Ichneumoninae Letreille, 1802

Diadromus collaris (Gravenhorst, 1829)

- GBIF https://www.gbif.org/occurrence/5084981691

Material

a. scientificName: *Diadromus collaris* (Gravenhorst, 1829); taxonomicStatus: ACCEPTED; higherClassification: Animalia; Arthropoda; Insecta; Hymenoptera; Ichneumonoidea; Ichneumonidae; Ichneumoninae; taxonRank: SPECIES; specificEpithet: *collaris*; higherGeography: Asia; Iraq; Arbil; stateProvince: Arbil; locality: Kurdistan, Qala Snigi Khwaru; decimalLatitude: 30.335; decimalLongitude: 44.327; geodeticDatum: WGS84; samplingProtocol: Malaise trap; eventDate: 2023-05-28; day: 28; individualCount: 1; sex: Male; lifeStage: Adult; catalogNumber: NHMUK010888459; occurrenceDetails: http://api.gbif.org/v1/occurrence/search?occurrenceId=316069ca-e822-4816-a853-f1bd4da578dc; recordedBy: [Dr Srwa Karim Bandyan]; occurrenceStatus: PRESENT; otherCatalogNumbers: NHMUK:ecatalogue:11380786; identifiedBy: Dr Gavin R. Broad; institutionCode: NHMUK; collectionCode: BMNH(E); basisOfRecord: PRESERVED_SPECIMEN; occurrenceID: D7D2CA80-EC1A-530E-8C44-4D36250ED0FD

Diagnosis: Fig. 8

Figure 8. doi

Diadromus collaris, ♂ Adult. Lateral view (above) and dorsal view (below).

Distribution: Very widespread in the Eastern and Western Palaearctic; also Australia, New Zealand, South Africa, Mexico (Yu et al. 2016).

Subfamily Pimplinae Wesmael, 1845

Clistopyga incitator (Fabricius, 1793)

- GBIF https://www.gbif.org/occurrence/5084977706

Material

a. scientificName: *Clistopyga incitator* (Fabricius, 1793); taxonomicStatus: ACCEPTED; higherClassification: Animalia; Arthropoda; Insecta; Hymenoptera; Ichneumonoidea; Ichneumonidae; Pimplinae; taxonRank: SPECIES; higherGeography: Asia; Iraq; Arbil; locality: Kurdistan, Qala Snigi Khwaru; decimalLatitude: 30.335; decimalLongitude: 44.327; geodeticDatum: WGS84; samplingProtocol: Malaise trap; eventDate: 2023-05-28; individualCount: 1; sex: Female; lifeStage: Adult; catalogNumber: NHMUK010888497; occurrenceDetails: http://api.gbif.org/v1/occurrence/search?occurrenceId=6e484e1f-93b1-4911-869f-ea43a5470296; recordedBy: [Dr Srwa Karim Bandyan']; occurrenceStatus: PRESENT; otherCatalogNumbers: NHMUK:ecatalogue:11381222; identifiedBy: Dr Gavin R. Broad; institutionCode: NHMUK; collectionCode: BMNH(E); basisOfRecord: PRESERVED_SPECIMEN; occurrenceID: 21DBB97C-B501-5248-BF16-069797BAEA76

Diagnosis: Fig. 9

Figure 9. doi

Clistopyga incitator, ♀ Adult. Lateral view (above) and dorsal view (below).

Distribution: Western Palaearctic, Kenya and South Korea (Yu et al. 2016).

Itoplectis tunetana (Schmiedeknecht, 1914)

- GBIF https://www.gbif.org/occurrence/5084978664

Material

a. scientificName: *Itoplectis tunetana* (Schmiedeknecht, 1914); taxonomicStatus: ACCEPTED; higherClassification: Animalia; Arthropoda; Insecta; Hymenoptera; Ichneumonoidea; Ichneumonidae; Pimplinae; taxonRank: SPECIES; higherGeography: Asia; Iraq; Arbil; stateProvince: Arbil; locality: Kurdistan, Qala Snigi Khwaru; decimalLatitude: 30.335; decimalLongitude: 44.327; geodeticDatum: WGS84; samplingProtocol: Malaise trap; eventDate: 2023-05-28; individualCount: 1; sex: Male; lifeStage: Adult; catalogNumber: NHMUK010888501; occurrenceDetails: http://api.gbif.org/v1/occurrence/search?occurrenceId=321b79a5-f421-4282-b07f-16abbfce449f; recordedBy: [Dr Srwa Karim Bandyan]; occurrenceStatus: PRESENT; otherCatalogNumbers: NHMUK:ecatalogue:11381236; identifiedBy: Dr Gavin R. Broad; institutionCode: NHMUK; collectionCode: BMNH(E); basisOfRecord: PRESERVED_SPECIMEN; occurrenceID: BDCC4B49-C679-5D79-8CF0-ECFD7451EE7C

Diagnosis: Fig. 10

Figure 10. doi

Itoplectis tunetana, ♂ Adult. Lateral view (above) and dorsal view (below).

Distribution: Very widespread in the Eastern and Western Palaearctic (Yu et al. 2016).

Pimpla flavicoxis Thomson, 1877

- GBIF https://www.gbif.org/occurrence/5084975663

Material

a. scientificName: *Pimpla flavicoxis* Thomson, 1877; taxonomicStatus: ACCEPTED; higherClassification: Animalia; Arthropoda; Insecta; Hymenoptera; Ichneumonoidea; Ichneumonidae; Pimplinae; taxonRank: SPECIES; higherGeography: Asia; Iraq; Arbil; locality: Kurdistan, Qala Snigi Khwaru; decimalLatitude: 30.335; decimalLongitude: 44.327; geodeticDatum: WGS84; samplingProtocol: Malaise trap; eventDate: 2023-05-28; individualCount: 1; sex: Male; lifeStage: Adult; catalogNumber: NHMUK010888502; occurrenceDetails: http://api.gbif.org/v1/occurrence/search?occurrenceId=9d3993ed-9334-4553-8441-10674a2675b4; recordedBy: [Dr Srwa Karim Bandyan]; occurrenceStatus: PRESENT; otherCatalogNumbers: NHMUK:ecatalogue:11381237; identifiedBy: Dr Gavin R. Broad; institutionCode: NHMUK; collectionCode: BMNH(E); basisOfRecord: PRESERVED_SPECIMEN; occurrenceID: 732145A3-15D5-5C96-8C0F-4504332EB3EE

Diagnosis: Fig. 11

Figure 11. doi

Pimpla flavicoxis, ♂ Adult. Lateral view (above) and dorsal view (below).

Distribution: Western Palaearctic, Eastern Russia (Irkutsk, Kemerovo) (Yu et al. 2016).

Pimpla spuria Gravenhorst, 1829

- GBIF https://www.gbif.org/occurrence/5084981719

Material

a. scientificName: *Pimpla spuria* Gravenhorst, 1829; taxonomicStatus: ACCEPTED; higherClassification: Animalia; Arthropoda; Insecta; Hymenoptera; Ichneumonoidea; Ichneumonidae; Pimplinae; taxonRank: SPECIES; higherGeography: Asia; Iraq; Arbil; locality: Kurdistan, Qala Snigi Khwaru; decimalLatitude: 30.335; decimalLongitude: 44.327; geodeticDatum: WGS84; samplingProtocol: Malaise trap; eventDate: 2023-05-28; individualCount: 1; sex: Female; lifeStage: Adult; catalogNumber: NHMUK010888498; occurrenceDetails: http://api.gbif.org/v1/occurrence/search?occurrenceId=a538755a-21fa-42ba-9105-9de545b4f05d; recordedBy: [Dr Srwa Karim Bandyan]; occurrenceStatus: PRESENT; otherCatalogNumbers: NHMUK:ecatalogue:11381230; identifiedBy: Dr Gavin R. Broad; institutionCode: NHMUK; collectionCode: BMNH(E); basisOfRecord: PRESERVED_SPECIMEN; occurrenceID: C97B9B64-8A9A-5CFF-9BBC-3310C300A573

Diagnosis: Fig. 12

Figure 12. doi

Pimpla spuria, ♀ Adult. Lateral view (above) and dorsal view (below).

Distribution: Very widespread in the Eastern and Western Palaearctic; North Africa (Yu et al. 2016).

Zaglyptus multicolor (Gravenhorst, 1829)

- GBIF https://www.gbif.org/occurrence/5084977707

Material

a. scientificName: *Zaglyptus multicolor* (Gravenhorst, 1829); taxonomicStatus: ACCEPTED; higherClassification: Animalia; Arthropoda; Insecta; Hymenoptera; Ichneumonoidea; Ichneumonidae; Pimplinae; taxonRank: SPECIES; higherGeography: Asia; Iraq; Arbil; continent: ASIA; locality: Kurdistan, Qala Snigi Khwaru; decimalLatitude: 30.335; decimalLongitude: 44.327; geodeticDatum: WGS84; samplingProtocol: Malaise trap; eventDate: 2023-05-28; individualCount: 1; sex: Male; lifeStage: Adult; catalogNumber: NHMUK010888499; occurrenceDetails: http://api.gbif.org/v1/occurrence/search?occurrenceId=ceecf3c4-64a7-469c-849d-d8891d73448a; recordedBy: [Dr Srwa Karim Bandyan]; occurrenceStatus: PRESENT; otherCatalogNumbers: NHMUK:ecatalogue:11381231; identifiedBy: Dr Gavin R. Broad; institutionCode: NHMUK; collectionCode: BMNH(E); basisOfRecord: PRESERVED_SPECIMEN; occurrenceID: 2E7BBFD4-AD6C-5397-AA2D-9D59BB365264

Diagnosis: Fig. 13

Figure 13. doi

Zaglyptus multicolor, ♂ Adult. Lateral view (above) and dorsal view (below).

Distribution: Very widespread in the Eastern and Western Palaearctic (Yu et al. 2016).

Zatypota bohemani (Holmgren, 1860)

- GBIF https://www.gbif.org/occurrence/5084985673

Material

a. scientificName: *Zatypota bohemani* (Holmgren, 1860); taxonomicStatus: ACCEPTED; higherClassification: Animalia; Arthropoda; Insecta; Hymenoptera; Ichneumonoidea; Ichneumonidae; Pimplinae; taxonRank: SPECIES; higherGeography: Asia; Iraq; Arbil; locality: Kurdistan, Qala Snigi Khwaru; decimalLatitude: 30.335; decimalLongitude: 44.327; geodeticDatum: WGS84; samplingProtocol: Malaise trap; eventDate: 2023-05-28; individualCount: 1; sex: Female; lifeStage: Adult; catalogNumber: NHMUK010888500; occurrenceDetails: http://api.gbif.org/v1/occurrence/search?occurrenceId=b255abd5-2d55-4f96-ae66-dabb021a3618; recordedBy: [Dr Srwa Karim Bandyan]; occurrenceStatus: PRESENT; otherCatalogNumbers: NHMUK:ecatalogue:11381234; identifiedBy: Dr Gavin R. Broad; institutionCode: NHMUK; collectionCode: BMNH(E); basisOfRecord: PRESERVED_SPECIMEN; occurrenceID: 29F67328-081A-5441-9989-974C53C7A9AA

Diagnosis: Fig. 14

Figure 14. doi

Zatypota bohemani, ♀ Adult. Lateral view (above) and dorsal view (below).

Distribution: Very widespread in the Western Palaearctic; also Iran, Kazakhstan, Lebanon, Mongolia, Tadjikistan, Canada (British Columbia), USA (Montana) (Yu et al. 2016).

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